2-GEAR
HAMMER DRILL

PSBM 850

PARKSIDE

GB IE CY

2-GEAR HAMMER DRILL
Operation and Safety Notes

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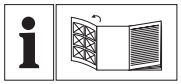

GB Before reading, unfold the page containing the illustrations and familiarise yourself with all functions of
IE the device.
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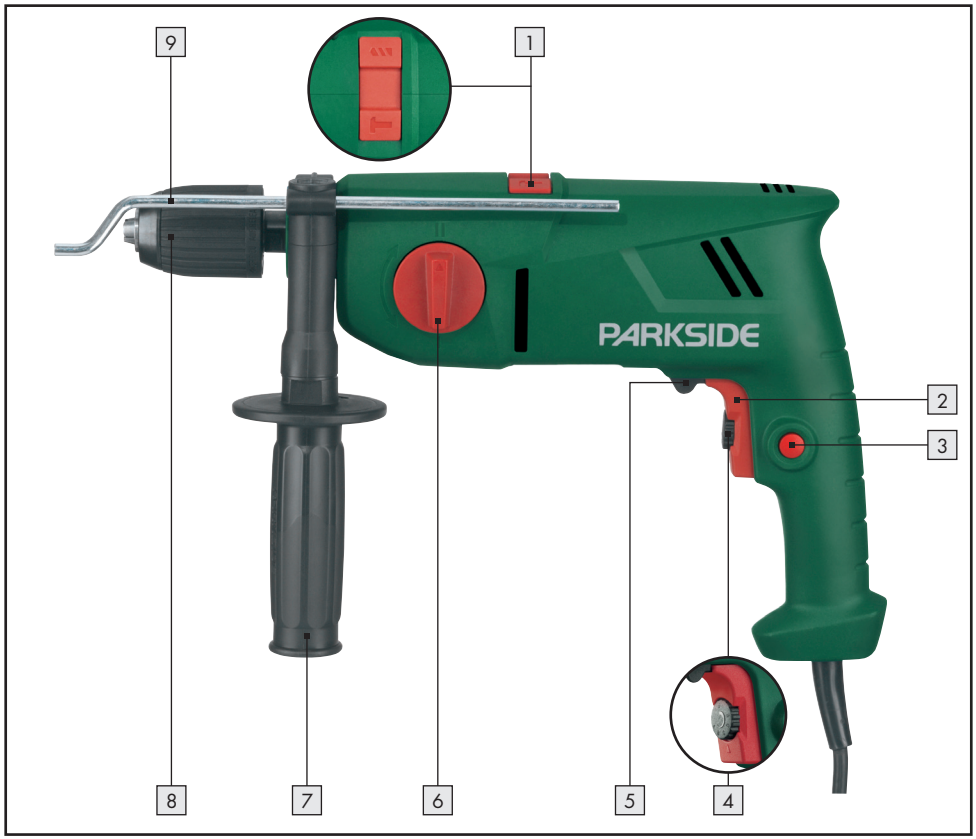
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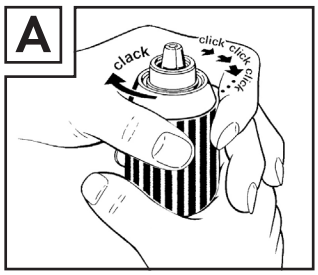
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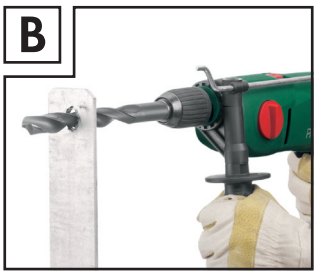
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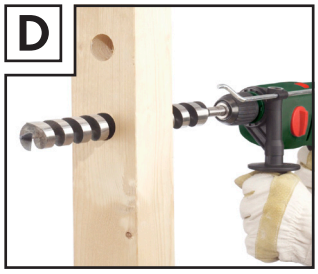
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The following pictograms are used in these operating instructions / on the device:			
	Read instruction manual!		Drilling
	Observe caution and safety notes!		Impact drilling
	Caution – electric shock! Danger to life!		Wear hearing protection, dust protection mask, protective gloves and protective glasses.
	Explosive material!		Keep children away from electrical power tools!
	Risk of fire!		Protect electrical power tools from moisture!
V~	Volt (AC)		Check that the device, mains lead and plug are in good condition!
W	Watts (Effective power)		Dispose packaging and appliance in an environmentally-friendly way!
	Safety class II	RÖHM	Quick-release chuck, Made in Germany

2-speed hammer-action drill PSBM 850

● Introduction

Please make sure you familiarise yourself fully with the way the device works before you use it for the first time and that you understand how to handle electrical power tools correctly. To help you do this please read the accompanying operating instructions. Keep these instructions in a safe place. If you pass the device on to anyone else, please ensure that you also pass on all the documentation.

● Proper use

The tool is intended for Impact drilling into brick, concrete and stone as well as drilling into wood, metal, ceramics and plastic. The clockwise/counter clockwise rotation direction switch also allows the device to be used as a driver. Any other use or modification to the device shall be considered as improper use and could give rise to considerable risk of accident. The manufacturer will not accept liability for loss or damage arising from improper use. The device is not intended for commercial use.

Figures A – E show the various possible applications and uses.
The tools and materials shown in the example applications are not included with the product.

● Features and equipment

1 Drill / hammer-action switch
2 ON / OFF switch
3 Lock switch
4 Speed preselector wheel

5 Rotation direction switch
6 Gear selector switch
7 Auxiliary handle
8 Quick-release chuck RÖHM
9 Depth stop

Included items

1 Hammer-action drill PSBM 850
1 Auxiliary handle
1 Depth stop
1 Carry case
1 Operating instructions
1 „Warranty and service“ booklet

Technical data

Nom. voltage:	230 V ~ 50 Hz
Rated power:	850 W
No-load rotational speed:	1st gear max. 1450 min^{-1} 2nd gear max. 3400 min^{-1}
Impact cycles:	16 times rotation speed
Chuck:	RÖHM
Chuck capacity:	1.5 – 13 mm
Drilling in steel:	max. ø 13 mm
Drilling in wood:	max. ø 30 mm
Impact drilling in concrete:	max. ø 16 mm
Screwing in wood:	max. ø 8 mm
Screwing in sheet steel:	max. ø 6.3 mm
Protection class:	II / ⧈

Noise and vibration data:
Values determined in accordance with EN 60745.
The sound pressure level (A-weighted) of the device is typically 90 dB(A). Uncertainty K = 3 dB.
The sound level while working can exceed 101 dB(A).

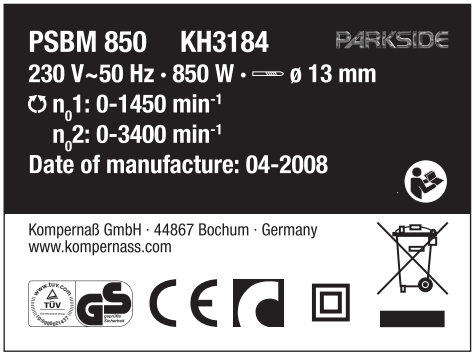
Wear ear protection!

Impact drilling in concrete:
max. Vibration emission value
$a_{h,\,ID}$ = 14.718 m / s^2
Uncertainty
K = 2.705 m / s^2

Drilling in metal:
max. Vibration emission value
$a_{h,\,D}$ = 2.363 m / s^2
Uncertainty
K = 1.5 m / s^2

⚠ WARNING! The vibration level given in these instructions has been measured in accordance with a standardised measurement procedure specified in EN 60745 and can be used to compare devices. Different uses of the device give rise to different vibration levels and in many cases they may exceed the values given in these instructions. It is easy to underestimate the vibration load if the electrical power tool is used regularly in particular circumstances.

Note: If you wish to make an accurate assessment of the vibration loads experienced during a particular period of working, you should also take into account the intervening periods of time when the device is switched off or is running but is not actually in use. This can result in a much lower vibration load over the whole of the period of working.


PSBM 850 KH3184
PARKSIDE
230 V~50 Hz · 850 W · ø 13 mm
n0 1: 0-1450 min-1
n0 2: 0-3400 min-1
Date of manufacture: 04-2008
Kompernaß GmbH · 44867 Bochum · Germany
www.kompernass.com

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General safety advice for electrical power tools

⚠ WARNING! Read all the safety advice and instructions!
Failure to observe the safety advice and instructions may result in electric shock, fire and/or serious injury.

KEEP ALL THE SAFETY ADVICE AND INSTRUCTIONS IN A SAFE PLACE FOR FUTURE REFERENCE!

1. Workplace safety

a) **Keep your working area clean and well lit.** Untidy or poorly lit working areas can lead to accidents.

b) **Do not work with the device in potentially explosive environments in which there are inflammable liquids, gases or dusts.** Electrical power tools create sparks, which can ignite dusts or fumes.

c) **Keep children and other people away while you are operating the electrical tool.** Distractions can cause you to lose control of the device.

2. Electrical safety

To avoid danger to life from electric shock:

a) **The mains plug on the device must match the mains socket. The plug must not be modified in any way. Do not use an adapter plug with devices fitted with a protective earth.** Unmodified plugs and matching sockets reduce the risk of electric shock.

b) **Avoid touching earthed surfaces such as pipes, radiators, ovens and refrigerators with any part of your body.** There is an increased risk of electric shock if your body is earthed.

c) **Keep the device away from rain or moisture.** Water entering an electrical device increases the risk of electric shock.

d) **Do not use the mains lead for any purpose for which it was not intended, e.g. to carry the device, to hang up the device or to pull the mains plug out of the mains socket. Keep the mains lead away from heat, oil, sharp edges or moving parts of the device.** Damaged or tangled mains leads increase the risk of electric shock.

e) **When working outdoors with an electrical power tool always use extension cables that are also approved for use outdoors.** The use of an extension cable suitable for outdoor use reduces the risk of electric shock.

f) **Use a residual current device (RCD) for protection if operating the electrical power tool in a moist environment is unavoidable.** The use of an RCD reduces the risk of electric shock.

3. Personal safety

a) **Remain alert at all times, watch what you are doing and always proceed with caution. Do not use the device if you are tired or under the influence of drugs, alcohol or medication.** One moment of carelessness when using the device can lead to serious injury.

b) **Wear personal protective equipment and always wear safety glasses.** The wearing of personal protective equipment such as dust masks, non-slip safety shoes, safety helmets or ear protectors, appropriate to the type of electrical power tool used and work undertaken, reduces the risk of injury.

c) **Avoid unintentional operation of the device. Check that the electrical power tool is switched off before you connect it to the mains, pick it up or**

carry it. Accidents can happen if you carry the device with your finger on the ON/OFF switch or with the device switched on.

d) **Remove any setting tools or spanners before you switch the device on.** A tool or spanner left attached to a rotating part of a device can lead to injury.

e) **Avoid placing your body in an unnatural position. Keep proper footing and balance at all times.** By doing this you will be in a better position to control the device in unforeseen circumstances.

f) **Wear suitable clothing. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves clear of moving parts.** Loose clothing, jewellery or long hair can become trapped in moving parts.

4. Careful handling and use of electrical power tools

a) **Do not overload the device. Always use an electrical power tool that is intended for the task you are undertaking.** By using the right electrical power tool for the job you will work more safely and achieve a better result.

b) **Do not use an electrical power tool if its switch is defective.** An electrical power tool that can no longer be switched on and off is dangerous and must be repaired.

c) **Pull the mains plug from the socket before you make any adjustments to the device, change accessories or when the device is put away.** This precaution is intended to prevent you from unintentionally starting the device.

d) **When not in use always ensure that electrical power tools are kept out of reach of children. Do not let anyone use the device if he or she is not familiar with it or has not read the instructions and advice.** Electrical power tools are dangerous when they are used by inexperienced people.

e) **Look after the device carefully. Check that moving parts are working properly and move freely. Check for any parts that are broken or damaged enough to detrimentally affect the functioning of the device. Have damaged parts repaired before you use the device.** Many accidents have their origins in poorly maintained electrical power tools.

f) **Keep cutting tools clean and sharp.** Carefully maintained cutting tools with sharp cutting edges are less likely to jam and are easier to control.

g) **Use the electrical power tool, accessories, inserted tools etc. in accordance with these instructions and advice, and the stipulations drawn up for this particular type of device. In doing this, take into account the working conditions and the task in hand.** The use of electrical power tools for purposes other than those intended can lead to dangerous situations.

Safety advice for hammer-action drills

- **Use the auxiliary handle supplied with the device.** Loss of control of the tool can lead to injury.
- Wear hearing protection during use. The effect of noise can cause hearing loss.
- Secure the workpiece. Use clamps or a vice to grip the workpiece firmly.
- If a dangerous situation arises, pull the mains plug immediately out of the mains socket.
- Always work with the mains lead leading away from the rear of the device.
- Do not allow the ventilation slots to become covered while the device is operating. Do not insert any objects into the ventilation slots.
- **DANGER OF FIRE FROM FLYING SPARKS!** Drilling or abrading metal creates flying sparks.

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Always make sure that nobody is placed in any danger and that there are no inflammable materials near the working area.

⚠ **WARNING! HAZARDOUS DUSTS!**
Working with harmful / poisonous dusts presents a danger to health for the tool operator and any persons in the vicinity.

Wear safety glasses and a dust protection mask!

- Avoid drilling paints containing lead or other substances hazardous to health.
- Do not drill or abrade materials containing asbestos. Asbestos is a known carcinogen.
- Do not drill moist materials or damp surfaces,
- When working always hold the device securely with both hands.
- If the inserted tool jams, switch off the electrical power tool immediately. Be prepared for high reaction torques as they may cause kickback.
- Always keep the device clean, dry and free of oil or grease.

Caution utility services!

⚠ **DANGER! Ensure that you do not strike electrical cables, gas or water pipes when you are working with the electrical power tool.** Check a wall using a suitable detector before you drill or cut slots.

Original accessories / attachments

Use only the accessories and attachments detailed in the operating instructions.
The use of inserted tools or accessories other than those recommended in the operating instructions could lead to you suffering an injury.

Have you understood everything?

Once you have made yourself familiar with this general safety advice for electrical power tools, and with the help of the device's operating instructions you now know about all the functions of and how to handle your electrical power tool, you are finally in a position to start work. Observing the manufacturer's instructions and advice will maximise your safety while working with the device.

Before first use

Attaching the auxiliary handle

For safety reasons this tool must always be used with the auxiliary handle 7 in place.

- ☐ Place the auxiliary handle 7 on the spindle collar and bring it round into the desired position. Tighten the auxiliary handle 7 in position.
- ☐ If necessary fit the depth stop 9.

Inserting a tool into the chuck

⚠ **WARNING! DANGER OF INJURY!**
Switch the device off and pull the plug out of the mains socket before carrying out any work on the device.

Opening the chuck

Note: The directions of rotation are given relative to the device being held by you in the working position / „drill chuck pointing away from you".
Your 2-speed hammer-action drill has a fully automatic spindle lock SPINDLE LOCK and is fitted with a single sleeve chuck "Made in Germany" by RÖHM.

The quick-release chuck 8 allows you to exchange drills or other tools without using a special key etc. The drive chain is locked when the motor comes to standstill so that the quick-release chuck 8 can be opened by turning it ↻.

Tightening the chuck

After you have selected and inserted the tool and fixed the inserted tool in place by the turning the

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drill chuck 8 you can use the tool. The spindle lock releases automatically when the motor starts.

First use

The mains voltage at the mains socket must match that shown on the rating plate on the device. Devices marked with 230V can also be operated at 220V.

Switching on and off

When operating the hammer-action drill you can select between intermittent or continuous operation mode. Use intermittent operation mode for shorter drilling jobs and continuous operation mode for longer drilling jobs. In either mode the device functions as follows:

To switch on intermittent operation mode:
- Press the ON / OFF switch 2.

To switch off intermittent operation mode:
- Release the ON / OFF switch 2.

To switch on continuous operation mode:
- Press the ON / OFF switch 2, keep it pressed and press the lock switch 3.

To switch off continuous operation mode:
- Press and then release the ON / OFF switch 2.

Infinitely adjustable speed setting

The ON / OFF switch 2 has a variable speed control.

- Pressing the ON / OFF switch 2 increases the speed.

Preselecting the rotation speed

You can pre-select the required speed in ratchet steps (A-F) using the speed preselector wheel 4.

- The most suitable speed depends on the material involved. We recommend that you carry out a few practical tests beforehand.

Tip: You will always find these two basic guidelines helpful:
1. Large drill diameter = lower speed whilst smaller drill diameter = higher speed
2. Hard material = lower speed

Selecting the direction of rotation

CAUTION! Only change the position of the rotation direction switch 5 after the device has come to a standstill.

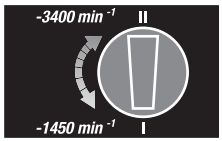
- Set the direction in which you wish the drill to rotate by using the rotation direction switch 5.

Selecting the gear

CAUTION! The gear selector switch 6 must only be moved after the device has come to a standstill.

- Select the speed range using the gear selector switch 6:

1 = low speed range
2 = high speed range



Switching between drilling / hammer-action

Note: The drill / hammer-action switch 1 must only be moved after the device has come to a standstill.

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Drilling:

- Set the drill / hammer-action switch 1 to the right into the position.

Impact drilling:

- Set the drill / hammer-action switch 1 to the left into the position.

Note: The hammer-action drilling mode is intended for drilling into brick, concrete and stone only.

Screwdriving

- The screwdriver attachments and bits must match the screw head. Set the drill / hammer-action switch 1 to the drill symbol and select 1st gear.

Servicing and cleaning

WARNING! DANGER OF INJURY!
Switch the device off and pull the plug out of the mains socket before carrying out any work on the device.

- Do not allow any liquids to enter the device. Use a cloth to clean the device.
- Clean the device after you have finished using it.
- Do not under any circumstances use petrol or strong solvents.
- Store the device in a dry room.

Disposal

The packaging is wholly composed of environmentally-friendly materials that can be disposed of at a local recycling centre.

Do not dispose of electrical power tools with the household rubbish!

In accordance with European Directive 2002/96/EC, worn out electrical power tools must be collected separately and taken for environmentally compatible recycling.

Contact your local refuse disposal authority for more details of how to dispose of your worn-out devices.

Information

Service centre

The service centre for your country is shown in the warranty documentation.

WARNING! Have your device repaired only by qualified specialist personnel using original manufacturer parts only. This will ensure that your device remains safe to use.

WARNING! If the plug or mains lead needs to be replaced, always have the replacement carried out by the manufacturer or his service centre. This will ensure that your device remains safe to use.

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Declaration of conformity / Producer CE

We, Kompernaß GmbH, Burgstr. 21,
44867 Bochum, Germany, hereby declare that this product complies with the following EU directives:

Machinery Directive
(98 / 37 / EC)

EU Low Voltage Directive
(2006 / 95 / EC)

Electromagnetic Compatibility
(2004 / 108 / EC)

Type / Description of product:
2-speed hammer-action drill PSBM 850

Bochum, 30.04.2008

Hans Kompernaß
- Managing Director -

We reserve the right to make technical modifications in the course of further development.

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